

**AMENDMENTS TO THE CLAIMS**

1-39. (Canceled)

40. (Currently Amended) A method for determining an electrotherapeutic drug effect, suitable for determining the effect of a new or known drug on the CNS system of a patient, comprising:

- a) providing:
  - i) a patient exhibiting an abnormal electroencephalogram; and
  - ii) a drug; and,
- b) converting said electroencephalogram to abnormal quantified neurophysiologic information, wherein said abnormal information comprises at least one multivariate outcome measurement
- c) selecting at least one patient administering [[the]] said drug to [[the]] said patient;[[,]]
- d) obtaining the said patient's post administration follow-up neurophysiologic information; and[[,]]
- e) comparing said abnormal information with said follow-up information under conditions such that said multivariate measure is differentially changed.  
analyzing the patient's post administration neurophysiologic information to determine the effect of the drug on the CNS system of the patient.

41. (Currently Amended) A method according to claim 40, wherein said analyzing step includes comparing the patient's neurophysiologic information with neurophysiologic information obtained from uses a reference database population of individuals to produce a similarities profile for the patient.

42. (Currently Amended) A method according to claim 40 [[41]], wherein  
[[the]] said differentially changed multivariate outcome measurement  
similarities profile identifies an electrotherapeutic drug effect is used to  
determine the effect of the drug.

43-49. (Canceled)